

## Product datasheet for **RG239693**

### AASDH (NM\_001286671) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_001286671) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AASDH
Synonyms:	ACSF4; LYS2; NRPS998; NRPS1098
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG239693 representing NM\_001286671.  
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACTCTTCAGGAATTGGTGCATAAGGCTGCCTCCTGTTATATGGACAGAGTAGCTGTATGTTTTGAT
GAATGCAACAACCAGCTCCAGTTTACTACACCTACAAGACTGTGGTTAATGCTGCTTCTGAATTATCA
AATTTTCTGCTGTTACACTGTGACTTTCAAGGAATTCGGGAAATTGGTCTCTACTGCCAACCTGGGATA
GACTTACCCTCTTGATTTAGGAATCTCCAAGTCCCGCTGCTTATGTACCTATCGAGCCAGATTCA
CCACCGTCATTATCAACTCATTTTATGAAAAATGTAATCTAAAGTATATCCTTGTGAAAAAACA
ATTAATAAATTTAAATCTTTTCATGAAACATTATTGAACTATGATACATTTACAGTGAACATAATGAC
CTAGTGCTCTTCAGACTTCACTGAAAAAATACTGAGGTGAACTTGATGCTAAATGATGAAAAAGAGAAA
TATGAAAAAGAAAAATAAAAAGCATAAGTTCTGAGCATGTCAATGAAGAAAAAGCAGAAGAACACATG
GATCTGAGGCTAAAGCATTGCTTAGCCTATGTTCTACATACATCAGGGACTACAGGGATACCGAAGATT
GTCAGAGTGCCTCATAAGTGTATAGTACCAAATATCCAGCATTTTCGGGACTTTTTGACATCACACAA
GAAGATGTTTTGTTTCTGGCTTACCTCTGACCTTCGATCCTTCTGTTGTGGAAATATTTCTTGCTCTA
TCAAGTGGTGCCTCTCTGCTTATTGTACCAACTCCGTCAAGTTGCTCCCATCAAAATTAGCCAGCGTT
CTCTTTTCCCATCATAGAGTGACTGTTTTGAGGCAACACCAACATTGCTTAGAAGATTTGGATCTCAG
CTTATCAAGTCAACTGTTTTGTCAGCCACTACTTCTTTCGAGTATTAGCCCTTGGTGGTGAAGCGTTT
CCATCATTGACAGTCTCAGAAGCTGGAGAGGAGAAGGCAATAAAACACAAATATTTAATGTTTATGGT
ATCACAGAGGTATCAAGTTGGGCGACCATTTATAGGATCCAGAGAAGACTCTTAACTCTACTCTCAAA
TGTGAATTGCCTGTACAACCTGGGATTTCCACTTCTTGGAAACAGTAGTTGAAGTCAAGACTAATAAGGC
TTCACAATTCAAGGAGGCGAGTGGCAAGTATTTTAGTGGCAGAAACAGAGTGTGTTTTCTTGATGAT
GAAGTGACAGTACCCTTGGCACAAATGCGAGCTACAGGAGACTTTGTGACTGTGAAAGATGGAGAGATT
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CAGGTTGCTGAAGAGCTTCAGCAAGTGGAGTCTTGTGAGTACATGGTATAATCAGGAAAAATTAATT
CTCTTCATGGTGTCTAAAGATGCTTCAGTAAAAGAATACATCTTAAAGAAGTGCAGAAATATCTCCA
AGTCATGCAGTCCCGGATGAGCTTGTATTGATCGACTCTACCATTTACATCCCACGGCAAAATTGAT
GTTTCTGAGTTAAACAAGATATATTTAACTACATAAACTTGAAGTCTGAGAATAAGCTCAGTGGGAAA
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GTTCTGATGAGTCACTTCTTAAATAGTGGTGGAGATTCCTTAAAGTCCATCCGGCTCCTCAGTGAG
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AGGTCAGACACAGGCAAATGTGTAGATGCTTACCCTGGTGTGTAATACCACTTTTGTAAAGTCATCT
ACAACGTGTACATTGGTCCCATTCTCATAGAATGAAGGCAGTTGACTTTTACTCTGGGAAAGGTA
TGGGAACAGATTTTGGGAGATCGAATTGAATCCTCAGCATGTGTATCTAAGTGTGAAACTTTATTGTG
GTGGGTTTGGCAGTCTCTACCAGTGGACCAATCTTTTATCCCCGTGTACCTCACCATCAGAGCAAAA
AATATTTTTTGGTTCCCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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**Protein Sequence:** >Peptide sequence encoded by RG239693  
 Blue=ORF Red=Cloning site Green=Tag(s)

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MTLQELVHKAASCYMDRVAVCFDECNNQLPVYYTYKTVVNAASELSNFLLLHCFDQGIQREIGLYCQPGI
DLPSWILGILQVPAAYVPIEPDPSPPSLSTHFMKKCNLYILVEKKQINKFKSFHETLLNYDTFTVEHND
LVLFRHLHWKNTENVLMLNDGKEKYEKEIKSISSEHVNEEKAAEEHMDLRLKHCLAYVLHTSGTTGIPKI
VRVPHKCIVPNIQHFRVLFIDITQEDVLFLASPLTFDPSVVEIFLALSSGASLLIVPTSVKLLPSKLASV
LFSHHRVTVLQATPTLLRRFGSQLIKSTVLSATTSRLVLAALGGEAFPSLTVLRWRGEGNKTQIFNVYG
ITEVSSWATIYRIPEKTLNSTLKCELPVQLGFPLLGTVVEVRDTNGFTIQEGSGQVFLGGRNRVCFDD
EVTVPLGTMRATGDFVTVKDGEIFFLGRKDSQIKRHGKRLNIELVQQVAEELQQVESCAVTWYNQEKLI
LFMVSKDASVKEYIFKELQKYLPSHAVPDELVLIDSLPFTSHGKIDVSELNKIYLYNYINLKENKLSGK
EDLWEKLQYLWKSTLNLPELRLRVPDESFLNNGGSLKSIKIRLLSEIEKLVGTSVPLLEIILSSSILE
IYNHILQTVVPDEDVTFRKSCATKRKLSNINQEEASGTSLSHQKAIMFTTCHNEINAFVVL SRGSQILSL
NSTRFLTKLGHCSACPSDSVSQTNIQNLKGLNSPVLIGKSKDPSCVAKVSEEGKPAIGTQKMELVHVRW
RSDTGKCVDASPLVVIPTFDKSSSTVYIGSHSRMKAVDFYSGKVKWEQILGDRIESSACVSKCGNFIV
VGLAVLYQWNTLFI PVYL TIRAKNIFWFP
TRTRPLEMESEDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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**Restriction Sites:** Sgfl-Mlul



<b>ORF Size:</b>	2571 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>RefSeq:</b>	<a href="#">NM_001286671.1</a> , <a href="#">NP_001273600.1</a>
<b>RefSeq Size:</b>	3195 bp
<b>RefSeq ORF:</b>	2574 bp
<b>Locus ID:</b>	132949
<b>UniProt ID:</b>	<a href="#">Q4L235</a>
<b>Cytogenetics:</b>	4q12
<b>Protein Pathways:</b>	Lysine biosynthesis, Lysine degradation, Metabolic pathways
<b>MW:</b>	96.7 kDa
<b>Gene Summary:</b>	This gene encodes a member of the non-ribosome peptide syntesase (NRPS) enzyme family. The encoded protein contains an AMP-binding domain, PP-binding (phosphopantetheine, or pantetheine 4'phosphate-binding) domain and the Pyrrolo-quinoline quinon (PQQ) binding domain. The protein is expressed in several adult tissues. [provided by RefSeq, Apr 2016]